

Removal of

Photocatalytic Air Purifier flash streamer

28 allergens Removal of 19 adjuvants



Deodorising

Removal of bacteria



MC707PVM

Warning



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- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiry, please contact your local importer, distributor and/or retailer.









Daikin Australia

Pty Limited (ISO 9001) QEC 23256 31 May 2006

ISO 9001 is a plant certification system defined by the International Organization for Standardization (ISO) relating to quality assurance. ISO 9001 certification covers quality assurance aspects related to the design, development, manufacture, installation, and supplementary service" of products manufactured at





Daikin Australia Pty Limited (ISO 14001) CEM20437 13 November 2006

ISO 14001 is the standard defined by the nternational Organization for Standardization (ISO) relating to environmental management systems. Our group has been acknowledged by an internationally accredited compliance organisation as having an appropriate programme of environmental protection procedures and activities to meet the

Dealer

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Flash Streamer cleans the air in your room.



Powerfully removes 28 allergens





Powerfully removes

19 adjuvants

Adjuvant (diesel exhaust particles)







Powerfully removes

odours

Powerfully removes bacteria and viruses

16dB

Removes viruses
Bio-antibody filter

7 year pleated filter
With Titanium Apatite Photocatalyst

Refreshes your living space **Negative ions**

Easy wipe clean Flat panel





flash streamer

^{*2} Mites were placed on the electrode of the Flash Streamer. After irradiating with the Flash Streamer for 15 minutes, the photograph was taken

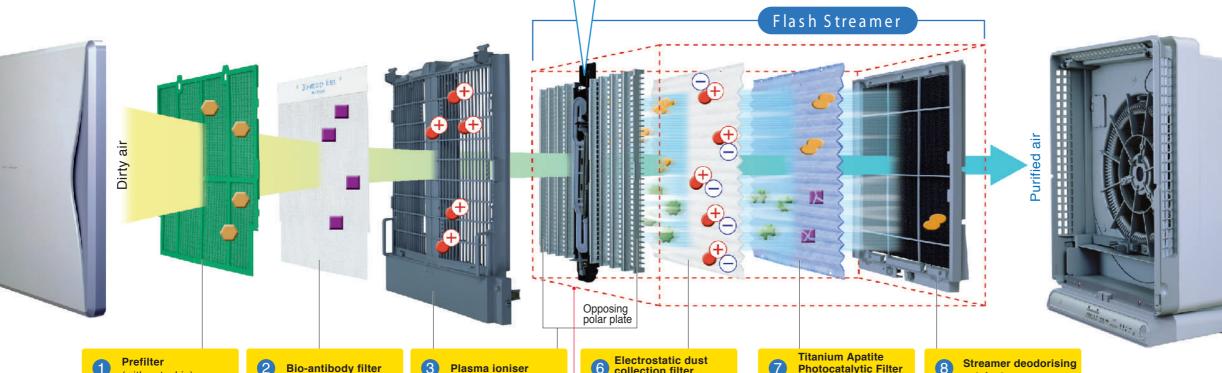
Powerful removal of allergens and adjvants with the amazing Flash Streamer!

Flash Streamer unit

The highly effective streamer discharges a stream of high-speed electrons that enable powerful decomposition. Foul odours and adjuvants such as exhaust gas, diesel exhaust particles and VOCs are effectively removed from the air.

Airborne substances like these are broken down and removed.

- Adjuvants (diesel exhaust particles, exhaust gas, VOCs, formaldehyde, etc.)
- Allergens (mite, pollen, mould, etc.), cigarette smoke and micro size dust
- House dust and pet hair
- Bacteria, mould spores, and viruses
- Odours (cigarette, mould and pet odours, etc.)



collection filter

Deodorising catalyst is

(5) ability to deodorise and

deodorising catalyst

Streamer

(with catechin) Large dust particles and pet

catechin component.*1

teria and mould spores attach-

Airborne viruses are quickly adsorbed hairs are captured and the bac- by the power of the bio-antibodies and charged and then sent to the electhen quickly removed. ed to them are removed by the

Collision and

airborne nitrogen

(2) union with

Dust and pollen are positively

More powerful

(3) change to

Positively charged dust and pollen are adsorbed by the negatively charged filter.

Photocatylist is activated

of filter to deodorise and

Odour molecules are broken down*3 into nitrogen and water which makes the odour go away

which increases ability

Titanium Anatite

Photocatalytic Filter

Photocatalytic Filter

Odours collected on the front side are broken down. Bacteria, mould spores and viruses are also adsorbed and thoroughly removed.

Odours are powerfully removed by the synergistic effect of the Flash Streamer. This makes the air even

2005 Award of

Awarded for development of home-use air purifier that uses direct current streamer discharge.

- Powerful removal of 28 allergens.
- Powerful removal also of 19 adjuvants.

(diesel exhaust particles, exhaust gas, and VOCs, formaldehyde, etc.)

- Powerful decomposition of odours with Flash Streamer and photocatylist.
- Removal of bacteria, mould spores, and even viruses.

With the Flash Streamer, decomposition by oxidation is

over 1000 times faster than glow discharge.

The Flash Streamer (streamer discharge) is a type of plasma discharger that is over 1.000 times faster at oxidation decomposition than the commonly used glow discharge method while using the same amount of electrical power.

4 main merits of the Flash Streamer

Removal of allergens

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Removal of adjvants

Page 6

Deodorising

Page 7

Removal of bacteria

*2 High-speed electrons become activated and change to

6 How the Flash Streamer works

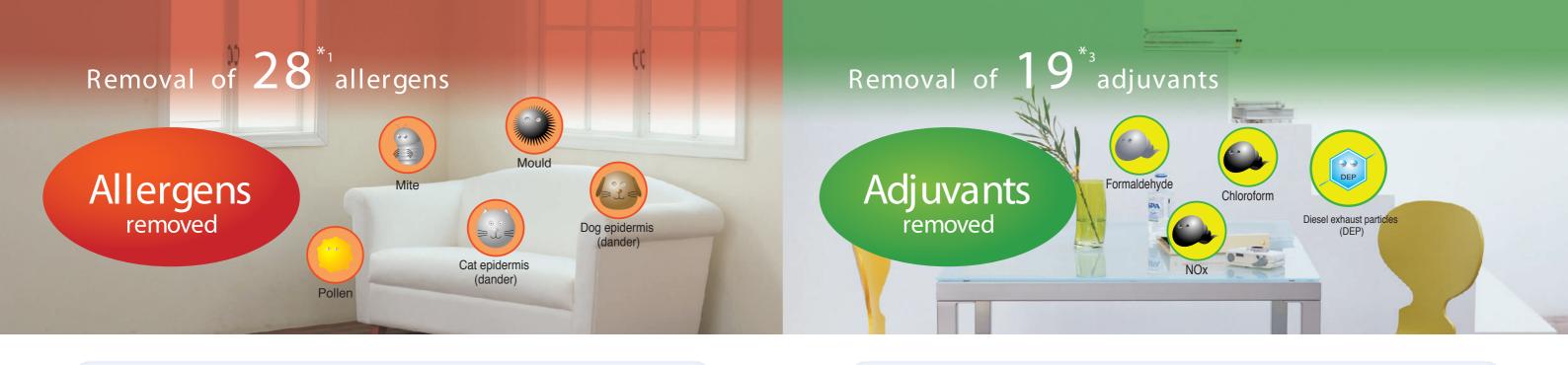
Discharge of

and deodorising capacity of air purifiers:

excited nitrogen molecules, oxygen radicals and hydrogen radicals, etc.

All harmful substances in cigarette smoke (carbon monoxide, etc.) cannot be removed. •Not all odour components that emanate continuously (building material odours and pet odours, etc.) can be removed.

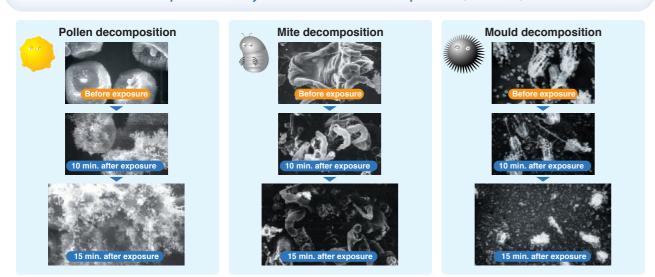
^{*1} Evaluation method: antibacterial test. Testing organisation: Japan Food Research Laboratories. Test result certificate No. 203041907-003. *3 Acetaldehyde is deodorised by breaking down into water and carbon dioxide



Removes over 99.6%*2 of allergens such as mite, pollen and mould.

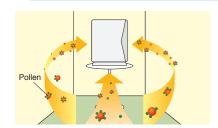


Flash Streamer powerfully breaks down pollen, mite, and mould.



Photos were taken by an electron microscope after pollen and mites were put on the electrode of the Flash Streamer and then exposed by the Flash Streamer for 15 minutes.

Room pollen caught by gentle air turbulence.



Pollen Mode

The falling speed of pollen is controlled by the airflow, which alternates between fast and slow. By creating this gentle turbulence in the room air, pollen is caught before it lands on the floor where it is difficult to retrieve.



*1 Cedar pollen, alder pollen, birch pollen, Japanese cypress pollen, pencil cedar pollen, bald cypress pollen, mugwort pollen, orchard grass pollen, ragwood pollen, sweet vernal grass pollen, timothy grass pollen, house dust mite [dermatophagoides pteronyssinus] (droppings and dead mites), house dust mite [dermatophagoides farinae] (droppings and dead mites), American cockroach (droppings), German cockroach (droppings), flea (droppings), dog epidermis (dander), cat epidermis (dander), hamster epidermis (dander), sooty moulds, aspergillus, eurotium, cladosporium, fusarium, penicillium, and wheat flower

Typical adjuvants and even diesel exhaust particles are thoroughly removed.

Adjuvants such as diesel exhaust particles, exhaust gas (NOx, formaldehyde, etc.) and VOCs (volatile organic compounds such as toluene and xylene) exist in our atmosphere. Adjuvants not only enter rooms through windows, but enter by clinging to our clothes. Once inside, they attach themselves to allergens such as pollen, mites, and mould. The Flash Streamer thoroughly removes not only the adjuvants, but also the heavy allergens, which consist of allergens with adjuvants attached to them.



Photos were taken by an electron microscope after diesel exhaust particles were put on the pleated filter and exposed by the Flash Streamer for 16 hours.

Flash Streamer quickly removes persistent formaldehyde.

Formaldehyde, which continually emanates, is considered more difficult to remove than transitory pollutants such as cigarette smoke. The Flash Streamer is able to remove it.

●When concentration of 0.2 ppm is continually eminated

(Compliant with Ministry of Land, Infrastructure and Transport (Japan) guideline.')

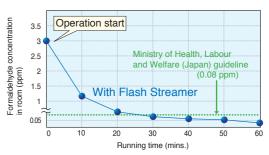
'Tentative WG guideline based on Ministry of Land, Infrastructure and Transport (Japan) sick house evaluation method.

Running time (mins.)

0.2 ppm = average of amount of formaldehyde released in newly built home and formaldehyde released from furniture, etc.

Test conditions: Airflow: 420 m³/h.; Test room: approx. 9.9 m²; Test instrument: MC707.

• When initial concentration is 3 ppm (Compliant with JEMA formaldehyde standard removal test method.



Test conditions: Airflow: 420 m³/h.; Test room: approx. 9.9 m²

Formaldehyde Guideline

Based on an interim report, the investigative commission for the problem of indoor air contaminants at the Ministry of Health, Labour and Welfare (Japan) have formulated, as follows, a guideline for concentrations of chemical substances contained in indoor air.

	Volatile organic compound	Indoor concentration guideline*	Reference notice
Formaldehyde		100 µg/m³ (0.08ppm)	No. 1093

From "Concentration guideline for chemical substances in indoor air and standard measurement method" (June, 2000), an official notice from Ministry of Health, Labour and Welfare (Japan). "Calculation of both units is at 25°C.

Recommended value of World Health Organisation (WHO) is also 0.08 ppm.

About adjuvant removal

The change in surface structure of diesel exhaust particles were verified with an electron microscope after irradiating them with the Flash Streamer.

Following that, the change in concentration before and after air purifier operation of gaseous adjuvants were verified using the damping or constant generation method

About the dust collection and deodorising capacity of air purifiers:

*All harmful substances in cigarette *Not all odour components that emapet odours, etc.) can be removed.

All harmful substances in cigarette smoke (carbon monoxide, etc.) cannot be removed.
 Not all odour components that emanate continuously (building material odours and net odours, etc.) can be removed.

*3 Diesel exhaust particles (DEP), benzene, toluene, ethyl benzene, xylene, styrene, naphthalene, iso-butanol, trichloroethylene, NOx, ethyl acetate, hexane, nonanoic acid, trimethyl benzene, formaldehyde,



Titanium Apatite Photocatalysti

Powerful deodorising by Flash Streamer and photocatylist

Powerfully breaks down odours in 3 stages! Odour molecules Electrostatic dust Flash Streamer Flash Streamer Flash Streamer Titanium Apatite Streamer otocatalytic Filte catalyst Odour components Odour components High-speed electrons adsorbed by the filter get a further and final breaking down quickly break down are powerfully broken down by the odour components in by the streamer this space. photocatalyst.

The Flash Streamer further empowers the Titanium Apatite Photocatalytic Filter and streamer deodorising catalyst.

Quick deodorising

Quickly breaks down unpleasant odours





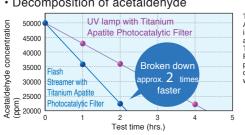
* 95% deodorising efficiency means the combined removal rate of ammonia, acetaldehyde and acetic acid after burning five cigarettes in a 1 m³ airtight container and running the air purifier at rated airflow for one minute.

Titanium Apatite Photocatalysti

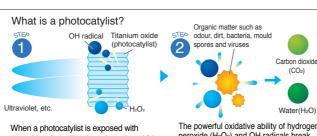
Flash Streamer with photocatalyst is approx. 2 times more powerful than UV with photocatalyst

Photocatylist is approx. 2 times more powerful with Flash Streamer than with UV light.

· Decomposition of acetaldehyde



Acetaldehyde gas was introduced into a 9 liter acrylic desiccator with Titanium Apatite Photocatvlist test powder added and the change in concentration was measured.



something that will activate it, such as UV light on titanium oxide, hydrogen peroxide (H₂O₂) and OH radicals are generated.

peroxide (H2O2) and OH radicals break down organic compounds such as odour into carbon dioxide and water

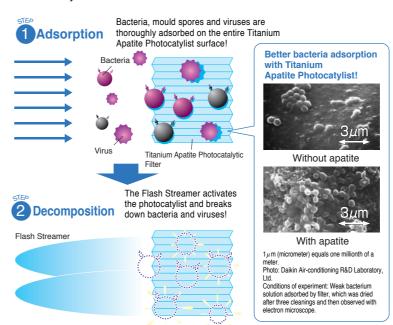
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Titanium Apatite Photocatalysti

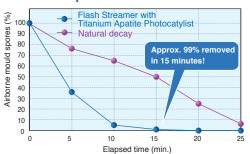
Flash Streamer with Titanium Apatite Photocatylist removes 99.99%*1 of bacteria and mould spores.

Uses Titanium Apatite Photocatalytic Filter.

The Titanium Apatite Photocatalytic filter excels in adsorbing bacteria and mould spores. After being thoroughly adsorbed by the filter they are removed by the Flash Streamer.



Quickly remove even indoor mould spores!



Room area: approx. 13 m²; Method of experiment: Air purifier placed in experiment room. Mould spores dispersed in room while air is agitated. Number of airborne mould spores measured over time. Measurement method: Air sampler method: Test result certificate number 205090528-002; Testing organisation Japan Food Research Laboratories

*1 Effectiveness shown for bacteria and mould spores collected on Titanium Apatite Photocatalytic Filter. Method of measurement: antibacterial test. Testing organisation: Japan Food Research Laboratories. Test Result Certificate No.

Bio-antibody filter removes viruses in about 1 minute.*2

It is important to eliminate viruses as soon as possible after they collect on the filter. The Bio-antibody filter can quickly remove viruses in about 1 minute.

The Bio-antidody filter is usable for one year after opening. In following years please purchase new filters separately.

Operation will not be adversely affected if a Bio-antibody filter is not used. Effective for 3 years from date of manufacture

Infectious Diseases (Japan).

Proven through joint research with Waseda University and the Ministry of Health, Labour and Welfare, National Institute of

IgY antibody: born of the latest in bio-technology

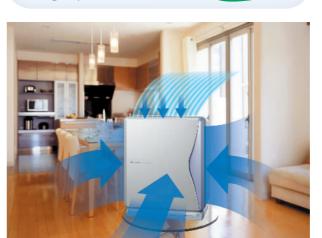


*2 Effectiveness shown for substances collected on Bioantibody Filter. Method of experiment: antiviral experiment (After using a filter to collect viruses that were atomised by a nebulizer, they were evaluated for contagiousness.)

Stylish design matches your interior

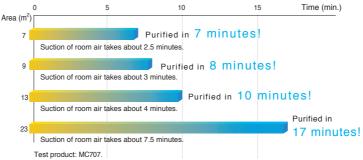


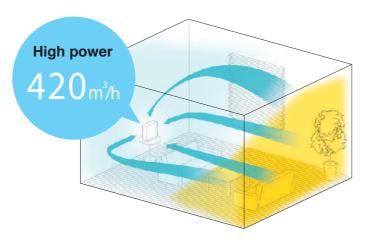
420 m³/h. high-power suction! Applicable rooms MAX Up to 48 m² MAX



Powerful 4-directional suction is used to reach every corner of the room. Odours, dust, bacteria and formaldehyde are relentlessly sucked in from above, left, right, and front.

· Guideline purification times



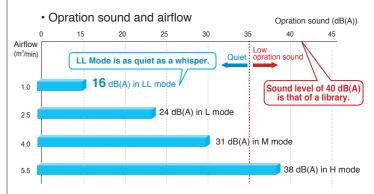


Large airflow Quiet operation

A mere 16 dB even in LL mode. It's as quiet as a whisper.



Quiet operation is achieved by Daikin's original shroud fan and a low-pressure-loss filter.



Opration sound is kept below 47 dB(A) even at maximum airflow of 420 m³/h.

Test product: MC707.



About the dust collection and deodorising capacity of air purifiers:

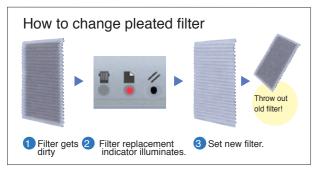
- •All harmful substances in cigarette smoke (carbon monoxide, etc.) cannot be removed.
- •Not all odour components that emanate continuously (building material odours and pet

Designed for easy use

Replaced each year for cleanliness and worry-free operation.



Comes with 7 pleated filters, a 7 year supply.



Economical: no need to buy filters for 7 years!

Operation is economical since the air purifier comes with 7 filters. You won't need to buy filters for 7 years. Each year you can replace with a clean new filter.

Calculation of filter life is based on 10 cigarettes per day being smoked in the room.
(Results based on testing carried out in accordance with Japan Electrical Manufacturers
Association JEM1467 standard.) The unit is unable to remove all harmful substances such as
carbon monoxide found in cigarette smoke. Filter replacement of once per year is given as a
guide. Replacement time will differ depending on how the unit is used and where it is located.
The replacement period will be shorter if the unit is used in a location where the air is very

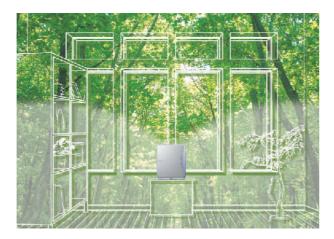


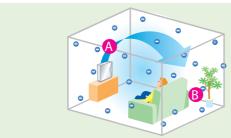
Easy filter storage!

Unused filters can be stowed neatly inside the unit.

Cleaning beneath the plasma ioniser 1 When cleaning sign lights 2 Remove dust and set aside in water To maintain performance, bottom of plasma ioniser should be maintained periodically.

In Negative Ion mode your room is filled with freshened air.





Turning on the switch is all it takes to generate negative ions. The large airflow fills the entire room, corner to corner, with freshened air.





Test conditions: Turbo mode used in an approx. 14 m² room at 25°C and 60% RH. (Conditions stipulated by Japan Electrical Manufacturers Association.)

Negative ions

Negative ions have a neutralising and purifying effect against substances that they cling to such as house dust, which holds positive ions and surrounds us in our daily lives.



Picture is for illustrative purposes o

Amounts of negative ions in nature

Forests Approx. 2,500 per cc
Waterfalls Approx. 10,000 to 18,000 per cc

Easy wipe clean Flat panel



Simply do a quick single wipe with a moist cloth if it gets dirty. This design makes it easy to keep clean.

Hand-was hable catechin prefilter

Remove, vacuum, and then just wash with water.

Catechin

Catechin, a bitter-tasting component found in plants, is a type of polyphenol. Found in abundance in tea, it possesses properties that enable it to remove bacteria and viruses. It is used in clothing such as underwear and in products such as masks and bedding.

Easy-to-carry handle



Allowing easy lifting with a single hand, it is great for moving the air purifier between rooms.

Remote controller storage space

The remote controller stores neatly in the top of the unit. You'll never have to look for it again.





Control the numerous features with the easy-to-use remote controller.



Anti-tamper lock

Set the antitamper lock with the remote controller to prevent small children from mishandling the air purifier.

Automatic operation

Airflow is adjusted to the level of dirt in the air. When the air is cleaner, energy-saving mode cuts in. This avoids wasted use of electricity. Still greater energy-efficiency from minimizing stand-by power.

TURBO Mode

This convenient mode provides highpower operation. Use it when you first come home or when you have unexpected guests.

Off timer

The remote controller can be set to turn off the unit after 1, 2 or 4 hours. □

4 steps fan speed

Fan speed can be adjusted in four steps from LL to H mode.

Pollen Mode

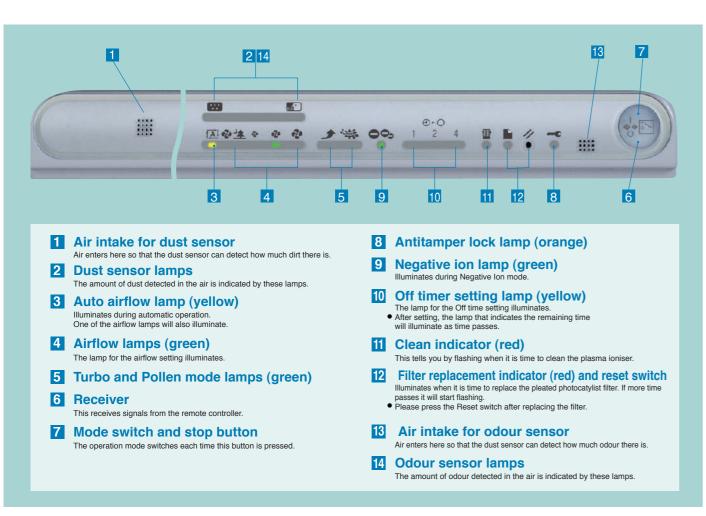
By creating a gentle turbulence in the room air, pollen is caught before it lands on the floor.

Negative Ion Mode

Turning on the "RELAX" switch is all it takes to generate negative ions. The large airflow fills the entire room, corner to corner, with freshened air.

Display adjustment

The brightness of lamps on the indicator panel can be adjusted to one of three levels.



Photocatalytic Air Purifier

■ SPECIFICATIONS

Model		MC707PVM					
Regulation		C-tick Marking					
Power supply Type Color		1ø 220-240 V 50 Hz					
		Photocatalytic air purifier Silver					
Weight	kg	8.7					
Applicable room area*1 m ²		48					
Mode		HH	Н	М	L	LL	
Running current	Α	0.48	0.22	0.14	0.10	0.08	
Rated power consumption	W	55	23	14	10	8	
Operation sound *2	dB(A)	47	38	31	24	16	
Airflow rate	m³/h	420	285	180	120	60	
Prefilter Dust collecting method Deodorising method Bacteria filtering method Safety devices		Polypropylen net with catechin					
		Plasma ioniser (electrostatic dust collection) + Electrostatic dust collection filter					
		Flash streamer + Titanium apatite photocatalytic filter +Deodorising catalyst					
		Bio-antibody filter + Flash streamer + Titanium apatite photocatalytic filter					
		Safety switch (Operation stops when the front panel open)					
Power cord	m	2.0					
Plug shape		O-TYPE					
Standard accessories		Operation manual, wireless remote controller, Titanium apatite photocatalytic pleated filter, Bio-antibody filter					

^{*1} Operation sound levels are the average of values measured at 1m away from the front, left, right, and top of the unit. (This equal to the in an anechoic camber)

OPTIONS

Titanium Apatite Photocatalytic pleated filter for replacement	KAC972A4E
Bio-antibody filters for replacement	KAF972A4E

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